



>>Derivative: 4'-Me ether, 5-*O*-β-D-glucopyranoside

Molecular Formula: C₂₂H₂₆O₁₂

Molecular Weight: 482.44

Accurate Mass: 482.14243

Percentage Composition: C 54.77%; H 5.43%; O 39.80%

Biological Source: Constit. of *Maytenus senegalensis*

Physical Description: Light brown amorph. powder

Optical Rotation: [α]_D −13.1 (c, 0.15 in MeOH)

UV: [neutral] λ_{max} 210 (log ε 4.59); 230 (sh) (log ε 4.14); 270 (log ε 3.41) (MeOH)

>>Derivative: 3',5,5'-Tri-Me ether, 3-*O*-(3,4,5-trihydroxybenzoyl)

Molecular Formula: C₂₅H₂₄O₁₁

Molecular Weight: 500.458

Accurate Mass: 500.131865

Percentage Composition: C 60.00%; H 4.83%; O 35.17%

Biological Source: Constit. of the flowers of *Sedum sediforme*

Physical Description: Pale brown powder

Optical Rotation: [α]_D²⁰ −140 (c, 0.16 in Me₂CO)

>>Variant: (2*R*,3*S*)-form

Synonym(s): (+)-*trans*-form. **Gallocatechin.** Gallocatechol. Casuarin

CAS Registry Number: 970-73-0

Molecular Formula: C₁₅H₁₄O₇

Molecular Weight: 306.271

Accurate Mass: 306.073955

Percentage Composition: C 58.83%; H 4.61%; O 36.57%

Biological Source: Widespread in plants

Physical Description: Cryst. + 2H₂O (H₂O)

Melting Point: Mp 189-191°

Optical Rotation: [α]_D +14.7 (Me₂CO aq.)

Solubility: BERDY SOL: Sol. H₂O

>>Derivative: Hexa-Ac

Physical Description: Cryst. (EtOH)

Melting Point: Mp 143°

Optical Rotation: [α]_D²⁰ +31 (c, 2 in Me₂CO)

>>Derivative: 3-*O*-(3,4,5-Trihydroxybenzoyl)

Synonym(s): 3-Galloylgallocatechin

Molecular Formula: C₂₂H₁₈O₁₁

Molecular Weight: 458.378

Accurate Mass: 458.084915

Percentage Composition: C 57.65%; H 3.96%; O 38.39%

Biological Source: Constit. of *Cistus incanus*

>>Derivative: 3'-*O*-(3,4,5-Trihydroxybenzoyl)

Synonym(s): 3'-Galloylgallocatechin

Molecular Formula: C₂₂H₁₈O₁₁

Molecular Weight: 458.378

Accurate Mass: 458.084915

Percentage Composition: C 57.65%; H 3.96%; O 38.39%

Biological Source: Tannin from leaves of *Pithecolobium lobatum*

Physical Description: Prisms

Melting Point: Mp 215°

Optical Rotation: [α]_D²³ −4.2 (c, 0.8 in MeOH)